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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,024	07/31/2001	Harunori Hirao	4296-144	3715
75	590 04/09/2003			
MATHEWS, COLLINS, SHEPHERD & GOULD, P.A. SUITE 306 100 THANET CIRCLE PRINCETON, NJ 08540			EXAMINER	
			OH, TAYLOR V	
PRINCETON,	NJ 08540		ART UNIT	PAPER NUMBER
			1625	. / .
			DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)				
	09/919,024	HIRAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Taylor Victor Oh	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stated and the set of	N. R. 1.136(a). In no event, however, may a reply within the statutory minimum of the iod will apply and will expire SIX (6) MC atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on $\underline{2}$	<u> 23 December 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☐	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	iei Ex parte Quayle, 1955 C	.D. 11, 433 O.G. 213.				
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on		disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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Final Rejection

The Status of Claims

Claims 1-4 have been rejected.

Claim Rejections-35 USC 112

1. Applicants' argument filed 12/23/2002 have been fully considered but they are not persuasive.

The rejection of Claims 1, 2, and 4 has been maintained due to applicants' failure to modify in the amendment.

Claim Rejections-35 USC 102

Rejection of Claims 1-4 under 35 U.S.C. 102(b) as being anticipated clearly by Takada et al (U.S. 4,203,906).

The rejection of Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated clearly by Takada et al (U.S. 4,203,906)) is maintained for reasons of the record in paper no. 4.

Response to Argument

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2. The applicants argue the following issue:

- 1. Takada et al does not disclose any step of causing raw material and molecular oxygen- containing gas to pass a range in which the concentration of the raw material is less than that of the lower explosion limit of the raw material and the concentration of oxygen is not less than the limiting oxygen concentration;
- 2. there is no teaching in Takada of controlling conditions of a raw material and a molecular oxygen-containing gas in the start-up of a reactor and the advantages associated therewith .

The applicants' argument have been noted, but these arguments are not persuasive.

First, with regard to the first and second arguments, the Examiner has noted applicants' argument. However, the Takada et al reference does mention that a catalytic vapor phase oxidation process is generally exothermic and it is important to control the reaction temperature within a certain range (see col .1 ,lines 16-20) in order to avoid undesired combustion reactions (see col. 1 ,lines 35-37). Furthermore, In example 5, the reference does teach that a reaction gas composition of 7.0 % by volume of propylene, 12.6 % by volume of oxygen , 10 % by volume of steam and balance of inert

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gas containing nitrogen gas is supplied to the catalyst stage (see col. 10 ,lines 17-21). From the aboves, it becomes evident that the Takada et al process does imply the importance of the explosion limit of both raw and oxygen materials. Also, there is definitely a teaching in the Takada process of controlling conditions of the raw material and the molecular oxygen-containing gas in the start-up of the reactor. Therefore, they read on the claimed invention.

Therefore, all the rejections are maintained.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Taylor Victor Oh whose telephone number is 703-305-

0809. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Alan Rotman can be reached on 703-308-4698. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-2742

for regular communications and 703-305-7401 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1235.

April 6, 2003

ALAN L. ROTMAN

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

alan L Rotman

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